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SCE/BBMP/HB/17/2020-2021

Aggregate Gradation Test
IS : 2386 Part I

Date : 14.06.2021

	: Executive Engineer, RR Nagar Division,BBMP, Bangalore.
	: Sri. H B Rajendra, Contractor, Bangalore.
of the Work	Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03), BBMP, Bangalore.
S Code	IS 2386(Part 1):1963
ample I / D	Hot Mix Plant, Bangalore
ype of Mix	Bituminous Concrete
Date of Testing	14.06.2021

Total Weight of Sample: **5000** gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.17	Remarks
19	0	0	0	100	100	Gradation satisfies Bituminous concrete Grade-II specification as per MORTH
13.2	318	6.36	6.36	93.64	90 - 100	
9.5	423	8.46	14.82	85.18	70 - 88	
4.75	729	14.58	29.40	70.60	53 - 71	
2.36	674	13.48	42.88	57.12	42 - 58	
1.18	509	10.18	53.06	46.94	34 - 48	
0.600	525	10.50	63.56	36.44	26 - 38	
0.300	484	9.68	73.24	26.76	18 - 28	
0.150	366	7.32	80.56	19.44	12 - 20	
0.075	533	10.66	91.22	8.78	4 - 10	

Total Weight of Sample: **5000** gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.17	Remarks
19	0	0	0	100	100	Gradation satisfies Bituminous concrete Grade-II specification as per MORTH
13.2	351	7.02	7.02	92.98	90 - 100	
9.5	482	9.64	16.66	83.34	70 - 88	
4.75	723	14.46	31.12	68.88	53 - 71	
2.36	625	12.50	43.62	56.38	42 - 58	
1.18	534	10.68	54.30	45.70	34 - 48	
0.600	518	10.36	64.66	35.34	26 - 38	
0.300	616	12.32	76.98	23.02	18 - 28	
0.150	319	6.38	83.36	16.64	12 - 20	
0.075	346	6.92	90.28	9.72	4 - 10	

Note:

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Email: sapiencebangalore@gmail.com

SCE/BBMP/HB/17/2020-2021

Date : 14.06.2021

Aggregate Gradation Test
IS : 2386 Part I

	: Executive Engineer, RR Nagar Division,BBMP, Bangalore.
	: Sri. H B Rajendra, Contractor, Bangalore.
of the Work	Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03), BBMP, Bangalore.
s Code	IS 2386(Part 1):1963
ample 1 / D	Hot Mix Plant, Bangalore
ype of Mix	Bituminous Concrete
Date of Testing	14.06.2021

Total Weight of Sample: **5000** gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.17	Remarks
19	0	0	0	100	100	Gradation satisfies Bituminous concrete Grade-II specification as per MORTH
13.2	386	7.72	7.72	92.28	90 - 100	
9.5	427	8.54	16.26	83.74	70 - 88	
4.75	636	12.72	28.98	71.02	53 - 71	
2.36	649	12.98	41.96	58.04	42 - 58	
1.18	518	10.36	52.32	47.68	34 - 48	
0.600	532	10.64	62.96	37.04	26 - 38	
0.300	486	9.72	72.68	27.32	18 - 28	
0.150	372	7.44	80.12	19.88	12 - 20	
0.075	545	10.90	91.02	8.98	4 - 10	

Total Weight of Sample: **5000** gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.17	Remarks
19	0	0	0	100	100	Gradation satisfies Bituminous concrete Grade-II specification as per MORTH
13.2	354	7.08	7.08	92.92	90 - 100	
9.5	522	10.44	17.52	82.48	70 - 88	
4.75	749	14.98	32.50	67.50	53 - 71	
2.36	638	12.76	45.26	54.74	42 - 58	
1.18	585	11.70	56.96	43.04	34 - 48	
0.600	527	10.54	67.50	32.50	26 - 38	
0.300	436	8.72	76.22	23.78	18 - 28	
0.150	259	5.18	81.40	18.60	12 - 20	
0.075	482	9.64	91.04	8.96	4 - 10	

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Email: sapiencebangalore@gmail.com

Ref No: BBMP/HB/17/2020-2021

Date : 14.06.2021

Aggregate Gradation Test
IS : 2386 Part I

	: Executive Engineer, RR Nagar Division,BBMP, Bangalore.
	: Sri. H B Rajendra, Contractor, Bangalore.
Name of the Work	Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03), BBMP, Bangalore.
Specification	IS 2386(Part 1):1963
Source / Code	Hot Mix Plant, Bangalore
Sample I / D	Bituminous Concrete
Type of Mix	14.06.2021
Date of Testing	

Total Weight of Sample: **5000** gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.17	Remarks
19	0	0	0	100	100	Gradation satisfies Bituminous concrete Grade-II specification as per MORTH
13.2	405	8.10	8.10	91.90	90 - 100	
9.5	515	10.30	18.40	81.60	70 - 88	
4.75	579	11.58	29.98	70.02	53 - 71	
2.36	623	12.46	42.44	57.56	42 - 58	
1.18	536	10.72	53.16	46.84	34 - 48	
0.600	541	10.82	63.98	36.02	26 - 38	
0.300	458	9.16	73.14	26.86	18 - 28	
0.150	413	8.26	81.40	18.60	12 - 20	
0.075	528	10.56	91.96	8.04	4 - 10	

Total Weight of Sample: **5000** gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.17	Remarks
19	0	0	0	100	100	Gradation satisfies Bituminous concrete Grade-II specification as per MORTH
13.2	398	7.96	7.96	92.04	90 - 100	
9.5	515	10.30	18.26	81.74	70 - 88	
4.75	727	14.54	32.80	67.20	53 - 71	
2.36	652	13.04	45.84	54.16	42 - 58	
1.18	625	12.50	58.34	41.66	34 - 48	
0.600	528	10.56	68.90	31.10	26 - 38	
0.300	627	12.54	81.44	18.56	18 - 28	
0.150	223	4.46	85.90	14.10	12 - 20	
0.075	357	7.14	93.04	6.96	4 - 10	

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Email: sapienceengineers@gmail.com

No.: SCE/BBMP/HIB/17/2020-2021 Date : 17.06.2021

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE
AASHTO T 164 & AASHTO T 30

	Executive Engineer, RR Nagar Division,BBMP, Bangalore
OF THE WORK	Sri. H B Rajendra, Contractor, Bangalore Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20 RRN-DIV(03), BBMP, Bangalore
LE ID	Hot Mix Plant, Bangalore
E OF TESTING	17.06.2021

BEN CONTENT DETERMINATION

Description	Sample 1	Sample 2
Weight of Mixture before Test, g	500	500
Weight of Mixture after Test, g	472.5	472.5
Weight of Asphalt and Mineral matter Extracted, g	27.5	27.2
Weight of Mineral Matter, g	-	-
Weight of Ash, g	-	-
Weight of Bitumen Extracted, g. (corrected)	27.5	27.2
Bitumen content in %	5.50	5.44
Average	5.47	

GRADATION AFTER EXTRACTION

SIEVE SIZE mm	Test 1 Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	Requirement as per MORTH table 500.17
19	0	0	0	100	100
13.2	13.6	13.6	2.9	97.1	90 - 100
9.5	56.8	70.4	14.9	85.1	70 - 88
4.75	92.6	163	34.5	65.5	53 - 71
2.36	46.5	209.5	44.3	55.7	42 - 58
1.18	42.4	251.9	53.3	46.7	34 - 48
0.600	58.7	310.6	65.7	34.3	26 - 38
0.300	53.6	364.2	77.1	22.9	18 - 28
0.150	24.9	389.1	82.3	17.7	12 - 20
0.075	47.1	436.2	92.3	7.7	4 - 10

SIEVE SIZE mm	Test 2 Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	Requirement as per MORTH table 500.17
19	0	0	0	100	100
13.2	12.5	12.5	2.6	97.4	90 - 100
9.5	61.8	74.3	15.7	84.3	70 - 88
4.75	92.7	167	35.3	64.7	53 - 71
2.36	48.3	215.3	45.5	54.5	42 - 58
1.18	50.3	265.6	56.2	43.8	34 - 48
0.600	54.3	319.9	67.7	32.3	26 - 38
0.300	43.2	363.1	76.8	23.2	18 - 28
0.150	20.7	383.8	81.2	18.8	12 - 20
0.075	42.9	426.7	90.2	9.8	4 - 10

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SC/SCE/BBMP/HB/17/2020-2021

Date : 17.06.2021

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE
AASHTO T 164 & AASHTO T 30

	: Executive Engineer, RR Nagar Division,BBMP, Bangalore.
	: Sri. H B Rajendra, Contractor, Bangalore.
OF THE WORK	Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03), BBMP, Bangalore.
PLE ID	Hot Mix Plant, Bangalore
E OF TESTING	17.06.2021

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Sample 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	472.7	473
3. Weight of Asphalt and Mineral matter Extracted, g	27.3	27
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g	-	-
6. Weight of Bitumen Extracted, g. (corrected)	27.3	27
7. Bitumen content in %	5.46	5.40
8. Average	5.43	

GRADATION AFTER EXTRACTION

SIEVE SIZE	Test 1				
mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	Requirement as per MORTH table 500.17
19	0	0	0	100	100
13.2	14.6	14.6	3.1	96.9	90 - 100
9.5	61:8	76.4	16.2	83.8	70 - 88
4.75	94.2	170.6	36.1	63.9	53 - 71
2.36	45.7	216.3	45.8	54.2	42 - 58
1.18	43.1	259.4	54.9	45.1	34 - 48
0.600	56.5	315.9	66.8	33.2	26 - 38
0.300	55.2	371.1	78.5	21.5	18 - 28
0.150	21.3	392.4	83.0	17.0	12 - 20
0.075	46.8	439.2	92.9	7.1	4 - 10

SIEVE SIZE	Test 2				
mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	Requirement as per MORTH table 500.17
19	0	0	0	100	100
13.2	15.2	15.2	3.2	96.8	90 - 100
9.5	62.8	78	16.5	83.5	70 - 88
4.75	91.7	169.7	35.9	64.1	53 - 71
2.36	45.1	214.8	45.4	54.6	42 - 58
1.18	52.8	267.6	56.6	43.4	34 - 48
0.600	53.2	320.8	67.8	32.2	26 - 38
0.300	46.8	367.6	77.7	22.3	18 - 28
0.150	31.9	399.5	84.5	15.5	12 - 20
0.075	36.6	436.1	92.2	7.8	4 - 10

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No. SCE/BBMP/HB/17/2020-2021 Date : 18.06.2021

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE
AASHTO T 164 & AASHTO T 30

	: Executive Engineer, RR Nagar Division,BBMP, Bangalore.
	: Sri. H B Rajendra, Contractor, Bangalore.
OF THE WORK	Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03), BBMP, Bangalore.
PLE ID	Hot Mix Plant, Bangalore
E OF TESTING	18.06.2021

UMEN CONTENT DETERMINATION

Description	Sample 1	Sample 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	471.6	471.9
3. Weight of Asphalt and Mineral matter Extracted, g	28.4	28.1
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g	-	-
6. Weight of Bitumen Extracted, g. (corrected)	28.4	28.1
7. Bitumen content in %	5.68	5.62
8. Average	5.65	

GRADATION AFTER EXTRACTION

SIEVE SIZE	Test 1				
mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	Requirement as per MORTH table 500.17
19	0	0	0	100	100
13.2	14.3	14.3	3.0	97.0	90 - 100
9.5	55.6	69.9	14.8	85.2	70 - 88
4.75	88.2	158.1	33.5	66.5	53 - 71
2.36	49.3	207.4	44.0	56.0	42 - 58
1.18	41.5	248.9	52.8	47.2	34 - 48
0.600	56.1	305	64.7	35.3	26 - 38
0.300	52.3	357.3	75.8	24.2	18 - 28
0.150	24.7	382	81.0	19.0	12 - 20
0.075	48.4	430.4	91.3	8.7	4 - 10

SIEVE SIZE	Test 2				
mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	Requirement as per MORTH table 500.17
19	0	0	0	100	100
13.2	14.9	14.9	3.2	96.8	90 - 100
9.5	65.2	80.1	17.0	83.0	70 - 88
4.75	93.3	173.4	36.7	63.3	53 - 71
2.36	46.8	220.2	46.7	53.3	42 - 58
1.18	54.7	274.9	58.3	41.7	34 - 48
0.600	52.4	327.3	69.4	30.6	26 - 38
0.300	42.9	370.2	78.4	21.6	18 - 28
0.150	30.5	400.7	84.9	15.1	12 - 20
0.075	46.2	446.9	94.7	5.3	4 - 10

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No: SCE/BBMP/HB/17/2020-2021

Date : 18.06.2021

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE
AASHTO T 164 & AASHTO T 30

	: Executive Engineer, RR Nagar Division,BBMP, Bangalore.
	: Sri. H B Rajendra, Contractor, Bangalore.
OF THE WORK	Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03), BBMP, Bangalore.
SAMPLE ID	Hot Mix Plant, Bangalore
DATE OF TESTING	18.06.2021

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Sample 2
a. Weight of Mixture before Test, g	500	500
b. Weight of Mixture after Test, g	472.1	472.4
c. Weight of Asphalt and Mineral matter Extracted, g	27.9	27.6
d. Weight of Mineral Matter, g.	-	-
e. Weight of Ash, g	-	-
f. Weight of Bitumen Extracted, g. (corrected)	27.9	27.6
g. Bitumen content in %	5.58	5.52
h. Average	5.55	

GRADATION AFTER EXTRACTION

SIEVE SIZE mm	Test 1 Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	Requirement as per MORTH table 500.17
19	0	0	0	100	100
13.2	14.2	14.2	3.0	97.0	90 - 100
9.5	50.3	64.5	13.7	86.3	70 - 88
4.75	92.8	157.3	33.3	66.7	53 - 71
2.36	47.4	204.7	43.4	56.6	42 - 58
1.18	41.6	246.3	52.2	47.8	34 - 48
0.600	55.1	301.4	63.8	36.2	26 - 38
0.300	50.8	352.2	74.6	25.4	18 - 28
0.150	32.9	385.1	81.6	18.4	12 - 20
0.075	45.2	430.3	91.1	8.9	4 - 10

SIEVE SIZE mm	Test 2 Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	Requirement as per MORTH table 500.17
19	0	0	0	100	100
13.2	16.3	16.3	3.5	96.5	90 - 100
9.5	62.5	78.8	16.7	83.3	70 - 88
4.75	91.8	170.6	36.1	63.9	53 - 71
2.36	45.4	216	45.7	54.3	42 - 58
1.18	51.3	267.3	56.6	43.4	34 - 48
0.600	52.6	319.9	67.7	32.3	26 - 38
0.300	43.8	363.7	77.0	23.0	18 - 28
0.150	30.6	394.3	83.5	16.5	12 - 20
0.075	44.9	439.2	93.0	7.0	4 - 10

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No: SCE/BBMP/HB/17/2020-2021 Date : 19.06.2021

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE
AASHTO T 164 & AASHTO T 30

	: Executive Engineer, RR Nagar Division,BBMP, Bangalore
	: Sri. H B Rajendra, Contractor, Bangalore
OF THE WORK	Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03), BBMP, Bangalore.
SAMPLE ID	Hot Mix Plant, Bangalore
DATE OF TESTING	19.06.2021

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Sample 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	472.2	472.5
3. Weight of Asphalt and Mineral matter Extracted, g	27.8	27.5
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g	-	-
6. Weight of Bitumen Extracted, g. (corrected)	27.8	27.5
7. Bitumen content in %	5.56	5.50
8. Average	5.53	

GRADATION AFTER EXTRACTION

SIEVE SIZE	Test 1				
mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	Requirement as per MORTH table 500.17
19	0	0	0	100	100
13.2	13.9	13.9	2.9	97.1	90 - 100
9.5	61.6	75.5	16.0	84.0	70 - 88
4.75	86.5	162	34.3	65.7	53 - 71
2.36	52.7	214.7	45.5	54.5	42 - 58
1.18	40.9	255.6	54.1	45.9	34 - 48
0.600	52.8	308.4	65.3	34.7	26 - 38
0.300	52.6	361	76.5	23.5	18 - 28
0.150	21.3	382.3	81.0	19.0	12 - 20
0.075	47.9	430.2	91.1	8.9	4 - 10

SIEVE SIZE	Test 2				
mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	Requirement as per MORTH table 500.17
19	0	0	0	100	100
13.2	14.2	14.2	3.0	97.0	90 - 100
9.5	66.7	80.9	17.1	82.9	70 - 88
4.75	92.8	173.7	36.8	63.2	53 - 71
2.36	45.1	218.8	46.3	53.7	42 - 58
1.18	56.1	274.9	58.2	41.8	34 - 48
0.600	53.7	328.6	69.5	30.5	26 - 38
0.300	32.2	360.8	76.4	23.6	18 - 28
0.150	24.2	385	81.5	18.5	12 - 20
0.075	41.6	426.6	90.3	9.7	4 - 10

Note:

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Priya

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Job No.: SCE/BBMP/HB/17/2020-2021

Date: 17.06.2021

TEST REPORT ON STABILITY OF MIX

Client	:	**: Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Agency	:	**: Sri. H B Rajendra,** Contractor, Bangalore.
Name of the Work	:	Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03), BBMP, Bangalore.
Source of location	:	Hot mix Plant, Bangalore
Type of Mix	:	Bituminous Concrete
Date of Testing	:	17.06.2021

The results of the tests conducted on the Bituminous Concrete mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	9.78	10.25	9 Kn (min)
2	Marshal flow, mm	3.46	2.57	2 – 4
3	Percent air voids in Mineral Aggregate	13.21	14.69	13 – 15
4	Voids in Compacted Mix	3.03	5.87	3 – 6
5	Percent Voids filled with Bitumen	67.14	71.32	65 - 75
6	Density, g/cc	2.25	2.26	--

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Job No.: SCE/BBMP/HB/17/2020-2021

Date: 17.06.2021

TEST REPORT ON STABILITY OF MIX

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Agency	:	**: Sri. H B Rajendra,** Contractor, Bangalore.
Name of the Work	:	Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03), BBMP, Bangalore.
Source of location	:	Hot mix Plant, Bangalore
Type of Mix	:	Bituminous Concrete
Date of Testing	:	17.06.2021

The results of the tests conducted on the Bituminous Concrete mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	9.54	10.37	9 Kn (min)
2	Marshal flow, mm	2.15	3.65	2 – 4
3	Percent air voids in Mineral Aggregate	13.06	14.92	13 – 15
4	Voids in Compacted Mix	3.17	5.53	3 – 6
5	Percent Voids filled with Bitumen	66.44	72.28	65 - 75
6	Density, g/cc	2.27	2.26	--

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Name of the Work	:	Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03), BBMP, Bangalore.
Source of location	:	Hot mix Plant, Bangalore
Type of Mix	:	Bituminous Concrete
Date of Testing	:	18.06.2021

The results of the tests conducted on the Bituminous Concrete mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	9.91	10.84	9 Kn (min)
2	Marshal flow, mm	2.21	3.54	2 – 4
3	Percent air voids in Mineral Aggregate	13.06	14.78	13 – 15
4	Voids in Compacted Mix	3.18	5.19	3 – 6
5	Percent Voids filled with Bitumen	70.21	74.01	65 - 75
6	Density, g/cc	2.27	2.26	--

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Name of the Work	:	Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03), BBMP, Bangalore.
Source of location	:	Hot mix Plant, Bangalore
Type of Mix	:	Bituminous Concrete
Date of Testing	:	18.06.2021

The results of the tests conducted on the Bituminous Concrete mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	10.11	9.34	9 Kn (min)
2	Marshal flow, mm	3.15	2.67	2 – 4
3	Percent air voids in Mineral Aggregate	13.52	14.84	13 – 15
4	Voids in Compacted Mix	3.20	5.47	3 – 6
5	Percent Voids filled with Bitumen	66.33	72.26	65 - 75
6	Density, g/cc	2.25	2.26	--

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Source of location	:	Hot mix Plant, Bangalore
Type of Mix	:	Bituminous Concrete
Date of Testing	:	19.06.2021

The results of the tests conducted on the Bituminous Concrete mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	10.69	9.89	9 Kn (min)
2	Marshal flow, mm	3.22	2.17	2 – 4
3	Percent air voids in Mineral Aggregate	13.23	14.59	13 – 15
4	Voids in Compacted Mix	3.25	5.68	3 – 6
5	Percent Voids filled with Bitumen	66.66	73.11	65 - 75
6	Density, g/cc	2.27	2.26	--

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